

ITU-T Workshop

“Opportunities and Challenges in Home Networking”

Abstract

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Speaker: Dominique Roche
France Telecom

Session: **1: Worldwide Status of Home Networking**

Title of Presentation: **European perspective in Home Networking**

- o Standardisation documents issued from European Standardisation Organisations must be “tools” for improving metropolitan edge, local access networks and particularly customers’ networks in order to accelerate their growth in capacity and further enhance the coverage of global broadband services. The purpose is to ensure smooth migration from today’s services to future services requiring very high speed transmission capabilities in all parts of the network, based on typical household expected future needs.

Then, optical fibre should increase throughout metropolitan edge and local access networks, including reach into end-user connections.

The reference model for communications infrastructure typically includes four levels of network:

- Long haul or backbone,
 - Transit or metropolitan edge and back haul,
 - Access, including transport and local distribution,
 - Residential, including end-user connection.
- o Short-term future needs of the typical household will correspond to three TV channels (3 x 5 Mbit/s for MPEG2 DVD quality encoding) plus one high-speed data channel (5 to 10 Mbit/s) including audio and voice channels.

The global expected balance is a minimum of 25 Mbit/s per household.

Some European countries are already considering 100Mbit/s as a minimum. Then European perspective in Home Networking will be presented as follow:

- **European residential market trends**
A few questions are expressed to reveal market trends.
- **Physical layer standardisation in progress**

Several European standardisation groups are working on the physical layer in view to ensure development of residential network broadband.

- **Other standardisation work in progress**

The landscape of residential network broadband development is completed by some other European activities. Especially European Union R&D is developing some specifications or general documentation for home appliances.

- **Residential and home office multi-service in 2010**

Does home network impact access network?

That is the question. But home broadband is the future of residential communication world and home network cannot get away!